



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,779	06/24/2003	Tetsujiro Kondo	450100-04609	1681
7590 10/06/2011 FROMMER LAWRENCE & HAUG LLP 745 FIFTH AVENUE NEW YORK, NY 10151				
EXAMINER				
DUFFIELD, JEREMY S				
ART UNIT		PAPER NUMBER		
2427				
MAIL DATE		DELIVERY MODE		
10/06/2011		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary**Application No.**

10/602,779

Applicant(s)

KONDO ET AL.

Examiner

JEREMY DUFFIELD

Art Unit

2427

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 September 2011.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1,2,4-11,29-38 and 55-58 is/are pending in the application.
- 5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1,2,4-11,29-38 and 55-58 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-886)
Paper No(s)/Mail Date ____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12 September 2011 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 2, 4-11, 29-38, and 55-58 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 2, 4, 5, 29-34, 55-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tow et al. (US 7,266,771) in view of Takata et al. (US 6,256,400) in view of Okada (US 5,907,361) and further in view of Kondo et al. (US 2002/0073417).

Regarding claim 1, Tow teaches an audience state estimation system (Fig. 1A) comprising:

imaging device for imaging an audience and generating a video signal relative to the audience thus imaged, i.e. a camera (Col. 1, lines 20-42; Col. 10, lines 46-57);

movement amount detection device for detecting a movement amount of said audience based on said video signal, i.e. determining motion information from video frames (Col. 3, lines 20-35; Col. 6, lines 47-59; Col. 8, lines 14-65);

wherein the movement amount detection device divides an area into blocks (Fig. 2, el. 201, 203, 205, 207, 209; Col. 8, lines 14-65), and

calculates a movement vector for each of the divided blocks (Fig. 2, el. 201, 203, 205, 207, 209; Col. 8, lines 14-65); and

an estimation device for estimating an audience state based on a comparison result of said movement amount and a predetermined reference level, i.e. using a motion information template that corresponds to clapping (Col. 10, line 46-Col. 11, line 3).

Tow does not clearly teach the movement amount is selected to estimate an audience state based on a contents provision state; the movement amount detection device discriminates and extracts a pixel range which is a flesh-color area identifying flesh color from said video signal, wherein the blocks include a face block representing a face unit of the audience and a hand block representing a hand unit of the audience, and block matching of a current image

and a next or previous frame image is performed for each of the blocks, wherein the movement vector is the movement direction and the movement amount when a result of the block matching indicating images of the blocks are matched, wherein each of the divided blocks includes a plurality of pixels and each of the plurality of pixels identifies flesh color.

Takata teaches a movement amount detection device discriminates and extracts a flesh-color area identifying flesh color from a video signal, i.e. face and hand regions are extracted based on the identification of a flesh color (Col. 11, lines 42-55; Col. 12, lines 16-43; Col. 18, lines 1-20; Col. 25, lines 55-65),

wherein the video signal is divided into blocks including a face block representing a face unit of the audience and a hand block representing a hand unit of the audience, i.e. a face region and a hand region are identified (Fig. 7, el. 701, 703; Col. 12, lines 9-34; Col. 17, lines 19-49), and

block matching of a current image and a next or previous frame image is performed for each of the blocks (Col. 12, lines 45-60; Col. 13, lines 1-39; Col. 18, lines 20-56; Col. 26, lines 1-7, 50-67; Col. 27, lines 43-67),

wherein the movement vector is the movement direction and the movement amount when a result of the block matching indicating images of the blocks are matched, i.e. the currently extracted region is matched to a previously extracted region and movement information is determined (Col. 12, lines 45-60; Col. 13, lines 1-39; Col. 18, lines 20-56; Col. 26, lines 1-7, 50-67; Col. 27, lines 43-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Tow to include the movement amount detection device discriminates and extracts a flesh-color area identifying flesh color from said video signal, wherein the blocks include a face block representing a face unit of the audience and a hand block representing a hand unit of the audience, and block matching of a current image and a next or previous frame image is performed for each of the blocks, wherein the movement vector is the movement direction and the movement amount when a result of the block matching indicating images of the blocks are matched, using the known method of determining movement vectors for different regions of a human body, as taught by Takata, in combination with the motion vector determination system of Tow, for the purpose of enabling the system to better determine the attitude of the audience.

Tow in view of Takata does not clearly teach the movement amount is selected to estimate an audience state based on a contents provision state; the movement amount detection device discriminates and extracts a pixel range, wherein each of the divided blocks includes a plurality of pixels, and each of the plurality of pixels identifies flesh color.

Okada teaches a movement amount detection device discriminates and extracts a pixel range which is a flesh-color area identifying flesh color from said video signal, i.e. an area is extracted based on the color of a face (Col. 7, lines 16-40; Col. 8, lines 15-27),

divides the extracted flesh-color area into blocks identifying flesh color (Col. 7, lines 44-67; Col. 8, lines 33-55), and

calculating a movement vector for each of the divided blocks (Col. 8, lines 55-59; Col. 9, lines 9-14, 40-52),

wherein each of the divided blocks includes a plurality of pixels and each of the plurality of pixels identifies flesh color (Col. 7, lines 27-41; Col. 8, lines 15-55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Tow in view of Takata's movement amount detection device to include extracting a pixel range which is a flesh-color area identifying flesh color from said video signal, dividing the flesh-color area into blocks, and wherein each of the divided blocks includes a plurality of pixels and each of the plurality of pixels identifies flesh color, using the known method of extracting an area of a frame based on the color of a face, as taught by Okada, in combination with the audience estimation system of Tow in view of Takata for the purpose of providing improved correlation between an extracted area of an image and a preceding image (Okada-Col. 3, lines 23-30).

Tow in view of Takata in view of Okada does not clearly teach the movement amount is selected to estimate an audience state based on a contents provision state.

Kondo teaches a movement amount is selected to estimate an audience state based on a contents provision state, i.e. using auxiliary information to determine an audience response (Para. 69, 70, 153, 165, 166, 175, 190, 191).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Tow in view of Takata in view of Okada to include the movement amount is selected to estimate an audience state based on a contents provision state, using the known method of utilizing auxiliary information provided with the video data to determine an audience response, as taught by Kondo, in combination with the audience estimation system of Tow in view of Takata in view of Okada, for the purpose of providing a better estimation of audience response.

Regarding claim 2, Tow in view of Takata in view of Okada in view of Kondo teaches the movement amount detection device determines movement information of the imaged audience based on said video signal (Takata-Col. 12, lines 45-60; Col. 13, lines 1-39; Col. 18, lines 20-56; Col. 26, lines 1-7, 50-67; Col. 27, lines 43-67), and

using MPEG differential frames that store motion information in the form of motion vectors obtained by determining the difference between adjacent frames (Tow-Col. 6, lines 47-60; Col. 8, lines 14-65); and

wherein an average movement amount showing an average of magnitudes of the movement vectors is set as the movement amount (Tow-Col. 9, line 55-Col. 10, line 33).

Regarding claim 4, Tow in view of Takata in view of Okada in view of Kondo wherein said movement amount detection device determines movement vectors of the imaged audience based on said video signal (Takata-Col. 12, lines 45-60; Col. 13, lines 1-39; Col. 18, lines 20-56; Col. 26, lines 1-7, 50-67; Col. 27, lines 43-67; Tow-Col. 6, lines 47-60; Col. 8, lines 14-65); and

calculating an average movement amount showing an average of magnitudes of the movement vectors (Tow-Col. 9, line 55-Col. 10, line 33), and

wherein a time macro movement amount is set as the movement amount of said audience, said time macro movement amount being an average of the average movement amounts in a time direction thereof, i.e. the motion vectors have a magnitude and direction over the time period of a frame or several frames (Tow-Col. 9, line 55-Col. 10, line 33).

Regarding claim 5, Tow in view of Takata in view of Okada in view of Kondo teaches when said movement amount is larger than a predetermined level, said estimation device estimates said audience state to be in any one of states of beating time with the hands and of clapping, i.e. using a motion

information template that corresponds to clapping (Tow-Col. 10, line 46-Col. 11, line 3).

Regarding claims 29, 30, 55-58, claims are analyzed with respect to claim 1. These are Markush claims that include estimating the audience state based on audio taken from the audience, data of which was assigned to the non-elected Group II of the Restriction/Election Requirement, and likewise all limitations dealing with audio will not be examined.

Regarding claim 31, claim is analyzed with respect to claim 1.

Regarding claim 32, claim is analyzed with respect to claim 2.

Regarding claim 33, claim is analyzed with respect to claim 4.

Regarding claim 34, claim is analyzed with respect to claim 5.

5. Claims 6-8 and 35-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tow in view of Takata in view of Okada in view of Tagawa et al. (US 7,373,209) and further in view of Kondo.

Regarding claim 6, Tow teaches an audience state estimation system (Fig. 1A) comprising:

imaging device for imaging an audience and generating a video signal relative to the audience thus imaged, i.e. a camera (Col. 1, lines 20-42; Col. 10, lines 46-57);

movement amount detection device for detecting a movement amount of said audience based on said video signal, i.e. determining motion information from video frames (Col. 3, lines 20-35; Col. 6, lines 47-59; Col. 8, lines 14-65);

wherein the movement amount detection device divides an area into blocks (Fig. 2, el. 201, 203, 205, 207, 209; Col. 8, lines 14-65), and

calculates a movement vector for each of the divided blocks (Fig. 2, el. 201, 203, 205, 207, 209; Col. 8, lines 14-65); and

an estimation device for estimating an audience state based on a comparison result of the movement amount and a predetermined reference level, i.e. using a motion information template that corresponds to clapping (Col. 10, line 46-Col. 11, line 3).

Tow does not clearly teach the movement periodicity is selected to estimate an audience state based on a contents provision state; a movement periodicity detection device discriminates and extracts a pixel range which is a flesh-color area identifying flesh color from said video signal, wherein the blocks include a face block representing a face unit of the audience and a hand block representing a hand unit of the audience, and block matching of a current image and a next or previous frame image is performed for each of the blocks, wherein the movement vector is the movement direction and the movement amount when

a result of the block matching indicating images of the blocks are matched, wherein each of the divided blocks includes a plurality of pixels and each of the plurality of pixels identifies flesh color.

Takata teaches a movement amount detection device discriminates and extracts a flesh-color area identifying flesh color from a video signal, i.e. face and hand regions are extracted based on the identification of a flesh color (Col. 11, lines 42-55; Col. 12, lines 16-43; Col. 18, lines 1-20; Col. 25, lines 55-65),

wherein the video signal is divided into blocks including a face block representing a face unit of the audience and a hand block representing a hand unit of the audience, i.e. a face region and a hand region are identified (Fig. 7, el. 701, 703; Col. 12, lines 9-34; Col. 17, lines 19-49), and

block matching of a current image and a next or previous frame image is performed for each of the blocks (Col. 12, lines 45-60; Col. 13, lines 1-39; Col. 18, lines 20-56; Col. 26, lines 1-7, 50-67; Col. 27, lines 43-67),

wherein the movement vector is the movement direction and the movement amount when a result of the block matching indicating images of the blocks are matched, i.e. the currently extracted region is matched to a previously extracted region and movement information is determined (Col. 12, lines 45-60; Col. 13, lines 1-39; Col. 18, lines 20-56; Col. 26, lines 1-7, 50-67; Col. 27, lines 43-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Tow to include the movement amount

detection device discriminates and extracts a flesh-color area identifying flesh color from said video signal, wherein the blocks include a face block representing a face unit of the audience and a hand block representing a hand unit of the audience, and block matching of a current image and a next or previous frame image is performed for each of the blocks, wherein the movement vector is the movement direction and the movement amount when a result of the block matching indicating images of the blocks are matched, using the known method of determining movement vectors for different regions of a human body, as taught by Takata, in combination with the motion vector determination system of Tow, for the purpose of enabling the system to better determine the attitude of the audience.

Tow in view of Takata does not clearly teach the movement periodicity is selected to estimate an audience state based on a contents provision state; a movement periodicity detection device discriminates and extracts a pixel range, wherein each of the divided blocks includes a plurality of pixels and each of the plurality of pixels identifies flesh color.

Okada teaches a movement amount detection device discriminates and extracts a pixel range which is a flesh-color area identifying flesh color from said video signal, i.e. an area is extracted based on the color of a face (Col. 7, lines 16-40; Col. 8, lines 15-27),

divides the extracted flesh-color area into blocks identifying flesh color (Col. 7, lines 44-67; Col. 8, lines 33-55), and

calculating a movement vector for each of the divided blocks (Col. 8, lines 55-59; Col. 9, lines 9-14, 40-52),

wherein each of the divided blocks includes a plurality of pixels and each of the plurality of pixels identifies flesh color (Col. 7, lines 27-41; Col. 8, lines 15-55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Tow in view of Takata's movement amount detection device to include extracting a pixel range which is a flesh-color area identifying flesh color from said video signal, dividing the flesh-color area into blocks, and wherein each of the divided blocks includes a plurality of pixels and each of the plurality of pixels identifies flesh color, using the known method of extracting an area of a frame based on the color of a face, as taught by Okada, in combination with the audience estimation system of Tow in view of Takata for the purpose of providing improved correlation between an extracted area of an image and a preceding image (Okada-Col. 3, lines 23-30).

Tow in view of Takata in view of Okada does not clearly teach the movement periodicity is selected to estimate an audience state based on a contents provision state; and a movement periodicity detection device for detecting movement periodicity of said audience based on said video signal.

Tagawa teaches detecting periodicity based on an audio signal, i.e. identifying a periodicity of a rhythm or beat in music based on the peaks of an auto-correlation function of the audio (Col. 13, lines 5-49).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Tow in view of Takata in view of Okada to include a movement periodicity detection device for detecting movement periodicity of said audience based on said video signal, using the technique taught by Tagawa in combination with the motion vector system taught by Tow in view of Takata in view of Okada, although in different fields of endeavor would provide a predictable variation to the motion vector system and for the purpose of specifically identifying a type of motion for use in a video retrieval system.

Tow in view of Takata in view of Okada in view of Tagawa does not clearly teach the movement periodicity is selected to estimate an audience state based on a contents provision state.

Kondo teaches a movement amount is selected to estimate an audience state based on a contents provision state, i.e. using auxiliary information to determine an audience response (Para. 69, 70, 153, 165, 166, 175, 190, 191).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Tow in view of Takata in view of Okada in view of Tagawa to include the movement periodicity is selected to estimate an audience state based on a contents provision state, using the known method of utilizing auxiliary information provided with the video data to determine an audience response, as taught by Kondo, in combination with the audience

estimation system of Tow in view of Takata in view of Okada in view of Tagawa, for the purpose of providing a better estimation of audience response.

Regarding claim 7, Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo teaches the movement periodicity detection device determines movement vectors of the imaged audience based on said video signal (Tow-Col. 6, lines 47-60; Col. 8, lines 14-65; Tagawa-Col. 13, lines 5-49), calculates an average movement amount showing an average of magnitudes of the movement vectors (Tow-Col. 9, line 55-Col. 10, line 33), and detects an autocorrelation maximum position of the average movement amount (Tow-Col. 10, line 57-Col. 11, line 3; Tagawa-Col. 13, lines 5-49), and wherein variance of the autocorrelation maximum position is set as said movement periodicity (Tagawa-Col. 13, lines 5-49).

Regarding claim 8, Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo teaches the variance is calculated using a signal in a frame range, said frame range being decided on the basis of the periodicity of said audience state to be estimated (Tow-Col. 9, lines 37-55; Col. 10, lines 45-67; Tagawa-Col. 13, lines 5-49).

Regarding claim 35, claim is analyzed with respect to claim 6.

Regarding claim 36, claim is analyzed with respect to claim 7.

6. Claims 9, 10, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo and further in view of Lu (US 5,550,928).

Regarding claim 9, Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo teaches all elements of claim 6.

Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo further teaches a movement periodicity (Tow-Col. 9, line 55-Col. 10, line 33; Tagawa-Col. 13, lines 5-49).

Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo does not clearly teach a ratio of low-frequency component in the average movement amount is set as said movement periodicity.

Lu teaches subjecting an image to low-pass filtering (Col. 11, line 48-Col. 12, line 13).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo to include a ratio of low-frequency component in the average movement amount is set as said movement periodicity, using the low-pass filtering technique of Lu in combination with the movement periodicity determining technique of Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo for the purpose of removing

extraneous image noise thereby providing a more accurate movement periodicity (Lu-Col. 11, lines 63-67).

Regarding claim 10, Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo in view of Lu teaches a frequency range of the low-frequency component is decided according to the periodicity of the said average movement amount transformed to a frequency region to be detected, i.e. identifying the rate and rhythm of clapping (Tow-Col. 9, line 55-Col. 10, line 33; Tagawa-Col. 13, lines 5-49; Lu-Col. 11, line 48-Col. 12, line 13).

Regarding claim 37, claim is analyzed with respect to claim 9.

7. Claims 11 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo and further in view of Stevens (WO 91/03912).

Regarding claim 11, Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo teaches all elements of claim 6.

Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo teaches determining the periodicity, rate, and rhythm of a set of motion vectors (Tow-Col. 10, line 46-Col. 11, line 3; Tagawa-Col. 13, lines 5-49).

Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo does not clearly teach the estimation device estimates said audience

state to be in a state of beating time with the hands when said movement periodicity is larger than a predetermined level, and estimates said audience state to be in a state of clapping when said movement periodicity is not larger than said predetermined level.

Stevens teaches estimating a person to be in a state of beating time with the hands when said movement periodicity is larger than a predetermined level, and estimates a person to be in a state of clapping when said movement periodicity is not larger than said predetermined level, i.e. when a first loud or sharp sound is received a counter is started; when the counter reaches a predetermined level without the system receiving another loud or sharp sound, the system determines that the periodicity of the first and a future second sound would be too large to be clapping; when a second loud or sharp sound is received before the counter reaches the predetermined level, the system determines that the periodicity of the two sounds is within a sufficient range to be clapping (Abstract).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo to include the estimation device estimates said audience state to be in a state of beating time with the hands when said movement periodicity is larger than a predetermined level, and estimates said audience state to be in a state of clapping when said movement periodicity is not larger than said predetermined level, using the technique taught

by Stevens in combination with the motion vector system taught by Tow in view of Takata in view of Okada in view of Tagawa in view of Kondo, although in different fields of endeavor would provide a predictable variation to the motion vector system and for the purpose of specifically identifying a type of motion for use in a video retrieval system.

Regarding claim 38, claim is analyzed with respect to claim 11.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEREMY DUFFIELD whose telephone number is (571)270-1643. The examiner can normally be reached on Mon.-Fri. 8:00 A.M.-5:30 P.M. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Beliveau can be reached on (571) 272-7343. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

26 September 2011
JSD

/Scott Beliveau/
Supervisory Patent Examiner, Art Unit 2427